

**CORRECTIONS AND ADDITIONS TO THE “CATALOG OF
THE STILT BUGS, OR BERYTIDAE, OF THE WORLD
(INSECTA: HEMIPTERA: HETEROPTERA)”**

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Abstract.—The catalog of the stilt bugs of the world, containing entries for 36 valid genera and 168 valid species, appeared in early 1998. Since then, we have discovered a number of errors thanks to the help of several colleagues. Corrections and additions range from minor misspellings to the omission of taxa. Among the more important entries concern the date of description of *Metacanthus* Costa and its type species and the addition of the two overlooked species, *Neides propinquus* Horváth and *Gampsocoris gatai* Günther.

Key Words: Heteroptera, Berytidae, catalog, omitted taxa, gender, type fixations, dating, misspellings, literature cited

The world stilt bug catalog (Henry and Froeschner 1998. Catalog of the stilt bugs, or Berytidae, of the world (Insecta: Hemiptera: Heteroptera). Contributions of the American Entomological Institute 30(4): 1–72.) appeared in early 1998. Since then, we have discovered a number of mistakes, including those brought to our attention by Drs. I. M. Kerzhner, Jean Péricart, Wolfgang Rabitsch, and J. L. Stehlík. These errors, most of which involve Old World taxa, have prompted us to provide this paper in the interest of making the corrections available for inclusion in Dr. Péricart's forthcoming catalog of the Palearctic Berytidae.

The corrections, additions, and other changes in this paper are arranged by page and follow the general format of our Catalog (Henry and Froeschner 1998). The one exception to the format is that we give only “author and date” for text references doc-

umenting the country distribution. The user should consult the bibliography for the full citation of these references.

CORRECTIONS AND ADDITIONS

- Page 6. To the distribution of *Apoplymus pectoralis* Fieber add Albania (Josifov, 1986) and Cyprus (Lindberg, 1948).
- Page 8. Under the genus *Neides*, the type designation for junior synonym *Podicerus* Duméril is not “Monotypic.” Correct type of designation to “Designated by Kirkaldy, 1900, Entomologist, 33(449): 265.”
- Page 8. Under entry for *Neides aduncus* Fieber, 1859, correct spelling of type locality “Corisca” to “Corsica.”
- Page 8. Under distribution for *Neides affghanus* Seidenstücker correct the distribution of “Russia” to “Tajikistan and Turkmenistan.”

Page 9. Add following species after *Neides gomeranus* Heiss:

Neides propinquus Horváth, 1901

1901 *Neides propinquus* Horváth, Drit. Asia. Fors. Graf. Eug. Zich. 2: 259. [Siberia].

Distribution: Mongolia, Russia (Siberian, Far Eastern) (Hoberlandt, 1968, Acta Faun. Entomol. Mus. Natl. Prage, 13: 51; Kanyukova, 1988, In: Key Insects Far-Eastern USSR, Hemiptera, 2: 882).

Host: Unknown.

Page 9. Under 1865 *Neides depressus* entry, correct date given for Reuter from 1971 to 1871.

Page 9. Under synonymy of *Neides tipularius* (Linnaeus), the junior synonym *Cimex araneoides* Goeze was synonymized by Harrer (G. A.), not Schaeffer. From distribution, transfer "Far Eastern" records to *Neides propinquus* (I. M. Kerzhner, personal communication, following Kanyukova, 1988, In: Key Insects Far-Eastern USSR, Hemiptera 2: 882), and also drop ending "k" from "Derzhaskyk" and change 2nd "u" in "Lukushuk" to an "a." To the distribution of *N. tipularius* add Greece (Josifov 1986), Hungary (Horváth, 1898), Luxembourg (Reichling and Gerend, 1994), and Slovakia (Stehlík and Vavřínová 1995); and to notes of *N. tipularius* add "and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 159) discussed the habitats, host, and life history."

Page 11. Under host of *Paleologus feanus* and distribution of *Paraberytus similis*, correct spelling of "Linnavuori" to "Linnavuori."

Page 12. Authorship for the tribe Berytini, derived from the nominate family name Berytinidae (based on the type genus *Berytinus* Kirkaldy), should be credited to Southwood and Leston, 1959, not Henry, 1997a.

Page 12. To the distribution of *Berytinus clavipes* (Fabricius) add Bulgaria (Josi-

fov, 1986), Hungary (Horváth, 1898), Luxembourg (Reichling and Gerend, 1994), Macedonia (Göllner-Scheiding, 1978), Romania (Sienkiewiz, 1964), Slovakia (Stehlík and Vavřínová, 1995), Slovenia (Gogala and Gogala, 1991), Switzerland (Rampazzi and Dethier, 1997), and Yugoslavia (Horváth, 1903); and to notes of *B. clavipes* add "and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 154) discussed the habitats, life cycle, and hosts."

Page 13. To the distribution of *Berytinus consimilis* (Horváth) add Slovakia (Stehlík and Vavřínová, 1995); and to notes of *B. consimilis* add "and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 159) discussed the habitats and the host."

Page 13. To the distribution of *Berytinus crassipes* (Herrich-Schaeffer) add Slovakia (Stehlík and Vavřínová, 1995, Acta Mus. Moraviae, 79: 159); and to notes of *B. crassipes* add "and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 159) discussed the habitats, host, and wing polymorphism."

Page 14. To the distribution of *Berytinus geniculatus* (Horváth) add Slovakia (Stehlík and Vavřínová, 1995); and to notes of *B. geniculatus* add "and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 160) discussed the habitats, hosts, and the life cycle."

Page 14. To the distribution of *Berytinus distinguendus* (Ferrari) add Egypt (Linnavuori, 1964) and Hungary (Horváth, 1898).

Page 15. Change date of publication of *Berytinus hirticornis* (Brullé) and subspecies *B. hirticornis hirticornis* (Brullé) from 1835 to 1836, following dating used in Palearctic Catalog (Aukema and Rieger, 1996); to the distribution of *B. hirticornis* add Luxembourg (Reichling and Gerend, 1994) and Slovakia (Stehlík and Vavřínová, 1995); and add to notes of *B. clavipes* "and Stehlík and Vavřínová (1995, Acta Mus. Moraviae,

- 79: 157) discussed the habitats and hosts.”
- Page 15. To the distribution of *Berytinus hirticornis nigrolineatus* (Jakovlev) add Bulgaria (Josifov, 1986) and Greece (Rieger, 1995).
- Page 15. To the distribution of *Berytinus hirticornis pilipes* (Puton) add Greece (Heiss, 1984) and Spain (Wagner, 1960).
- Page 16. To the distribution of *Berytinus minor minor* (Herrich-Schaeffer) add Albania and Bulgaria (Josifov, 1986), Austria, Romania, and Switzerland (Sienkiewicz, 1964), Hungary (Horváth, 1898), Luxembourg (Reichling and Gerend, 1994), and Slovenia (Gogala and Gogala, 1991).
- Page 17. Under distribution of *Berytinus montivagus* (Meyer-Dür), drop second “k” in Derzhansky, 1997; to the distribution of *B. montivagus* add Slovakia (Stehlík and Vavřínová, 1995); and to notes of *B. montivagus* add “and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 161) discussed the habitats, hosts, and the life cycle.”
- Page 17. To the distribution of *B. signoreti* (Fieber) add Luxembourg (Reichling and Gerend, 1994), Slovakia (Stehlík and Vavřínová, 1995), and Tunisia (Linnavuori, 1965), and to the notes of *B. signoreti* add the reference “Stehlík and Vavřínová, 1995, Acta Mus. Moraviae, 79: 162.”
- Page 18. Under heading of *Berytinus strangulatus* (Rey), correct date from 1887 to 1888. Also, correct spelling of “L'Exchange” to “L'Echange” and the type locality from “Europe” to “France.”
- Page 18. To the distribution of *B. striola* (Ferrari) add Slovakia (Stehlík and Vavřínová, 1995) and to notes of *B. striola* add “and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 163) discussed the habitats, hosts, and life cycle.”
- Page 20. To distribution of *Gampsocoris culicinus culicinus* Seidenstücker add Slovakia (Stehlík and Vavřínová, 1995); and to notes of *G. culicinus* add “and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 165) discussed the habitats, host, and life history.”
- Page 21. To the distribution of *Gampsocoris enslini* Seidenstücker add Albania, Armenia, Azerbaidzhan, Bulgaria, Georgia, Greece, Iran, Yugoslavia (Pericart, 1984).
- Page 21. Add following species entry:
Gampsocoris gatai Günther, 1996
 1996 *Gampsocoris gatai* Günther, 1996. Int. Entomol. Ver., 21: 125. [Spain].
 Distribution: Spain.
 Host: *Teucrium charidemi* Sandwith [Lamiaceae] (Günther, 1998, Russian Entomol. Soc. 1: 106); the host was given incorrectly as *Ononis natris* ssp. *ramosissima* (Desf.) Batt. in original description (Günther, 1996, Mitt. Int. Entomol. Ver., 21: 128).
- Page 23. Under *Gampsocoris punctipes punctipes* (Germar) entry, correct Burmeister, 1835, reference from “Handbk” to “Handbch.” Under Wagner, change date 1955 to 1954 and spelling of “*seidenstuckeri*” to “*seidenstueckeri*.” To the distribution add Luxembourg (Reichling and Gerend, 1994), Saudi Arabia (Linnavuori, 1986), and Slovakia (Stehlík and Vavřínová, 1995); and to notes of *G. punctipes* add “and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 166) discussed the habitats, host, and life history.”
- Page 30. Close parentheses and eliminate one period at end of “Distribution” for *Capyella horni* Breddin.
- Page 29. Under genus *Capyella* and in Literature Cited (p. 53), correct date for *Capytum* Strand from 1926 to 1928.
- Page 32. Under *Jalysus albidus* Stusak, correct spelling of host genus from “*Adensotemma*” to “*Adenostemma*.” Also modify spelling in host index, p. 56, under both the generic and species entries.

Page 35. We incorrectly listed *Berytus elegans* Costa, 1847 (nec Curtis) as a junior synonym of *Berytus meridionalis* Costa, 1843 and as the type species of *Metacanthus* Costa, 1847. This interpretation is in error and should have referred to *Neides elegans* Curtis, as noted on page 23 of our catalog, where we correctly list *Neides elegans* Curtis as a junior synonym of *Berytus punctipes* (the type species of *Gampsocoris* Fuss). The problem leading to this situation began when Costa (1843) described his species *Berytus meridionalis* and suggested that it should be placed in a new genus, which he tentatively (but not formally) named *Metacanthus*. Later, he (Costa, 1847) described and more formally proposed the name *Metacanthus*, but used *Berytus elegans* Curtis (based on his figure) as the type species, instead of *B. meridionalis*. If Costa's (1847) later description is followed, with *B. elegans* as the type species, then the genus *Metacanthus* becomes a junior synonym of *Gampsocoris*; thus, disrupting the stability of the largest stilt bug genus. Because of this situation, we fully agree with Dr. J. Péricart's (personal communication) suggestion that Costa's (1843) first description of *Metacanthus* should be accepted, with *Berytus meridionalis* as the type species, a course of action followed by him (Péricart, 1984) in his well-known book on the Berytidae of the Mediterranean Region.

Therefore, modify the genus *Metacanthus* as follows:

Genus *Metacanthus* Costa, 1843

1843 *Metacanthus* Costa, Cimic. Neopol., p. 26. Type species: *Berytus meridionalis* Costa, 1843. Original designation.

Note: We follow Péricart (1984), who considered that Costa (1843) sufficient-

ly described and validated the name *Metacanthus* and designated as its type, *B. meridionalis*. To accept otherwise is to seriously jeopardize stability and change the name of the largest stilt bug genus, *Metacanthus* Costa.

Page 35. To the distribution of *Metacanthus* (*Cardopostethus*) *annulosus* (Fieber) add Slovakia (Stehlík and Vavřínová, 1995).

Page 36. Modify the subgenus *Metacanthus* as follows (following generic modification above, p. 35):

Subgenus *Metacanthus* Costa, 1843

1843 *Metacanthus* Costa, Cimic. Neopol., p. 26. Type species: *Berytus meridionalis* Costa, 1843. Original designation.

Page 36. Under *Metacanthus acintus*, correct spelling of "Nannaizab" to "Nonnaizab."

Page 36. Correct spelling of species names *Metacanthus "ataoensis"* to "*antaensis*," three times.

Page 36. The first combination of *Gampsocoris delhiensis* Menon and Ghai in *Metacanthus* was by Josifov (1965, *Reichenbachia* 5: 285), not Wheeler and Schaefer (1982, *Ann. Entomol. Soc. Am.*, 75: 502).

Page 37. In note under *Metacanthus lineatus* (Jakovlev), correct spelling of *M. "maghrebrinus"* to "*maghrebinius*."

Page 37. Change date for description of *Metacanthus meridionalis* (Costa) from 1844 to 1843; delete entry for "1847 *Metacanthus elegans* Costa, Cimic. Neapol. Cent., p. 259. [Italy]. Synonymized by Bergroth, 1913, *Mém. Soc. Entomol. Belg.*, 22: 177." as explained under genus above (p. 35); correct spelling of "Corisca" to "Corsica" under *Megalomerium pallidum* entry; and correct spelling of "Linnavuouri" to "Linnavuori."

Page 38. In distribution under *Metacanthus mollis* Stusak, correct spelling of Linnavuouri to Linnavuori; and to the dis-

- tribution of *M. mollis* add Saudi Arabia, Somalia, and Yemen (Linnavuori, 1986).
- Page 39. In distribution under *Metacanthus nitidus* Stusak, correct spelling of “Linnavuouri” to “Linnavuori.”
- Page 39. Change spelling of *Metacanthus pertenerus* (Breddin) to *M. “pertenerum”* three times at species and both subspecies entries. Also add to index entries for “*Metacanthus pertenerum*” (p. 68) and “*Metacanthus, pertenerum vittatus*” (p. 72).
- Page 40. For the type species of the genus *Neometacanthus* and under the species *Neometacanthus picticornis*, correct spelling of “Noualheir” to “Noualhier.”
- Page 42. To the distribution of *Yemma gracilis* Linnavuori add Yemen (Linnavuori and van Harten, 1997).
- Page 43. The genus *Yemma* is feminine; therefore correct spelling of the specific epithet “*Yemma signatus*” to “*Yemma signata*” in first line and add “[sic]” to Hsiao, 1977 entry.
- Page 44. Under *Metatropis rufescens*, correct Burmeister, 1835, reference from “Handbk.” to “Handbch.” To the distribution of *M. rufescens* add Luxembourg (Reichling and Gerend, 1994) and Slovakia (Stehlík and Vavřínová, 1995); and to notes of *M. rufescens* add “and Stehlík and Vavřínová (1995, Acta Mus. Moraviae, 79: 159) discussed the habitats, host, and life history.”
- Page 45. The genus *Metatropis* is feminine; therefore correct spelling of the specific epithet “*Metatropis tesongsanicus*” to “*Metatropis tesongsanica*” in first line and add “[sic]” after original combination.
- Page 45. Correct spelling of “Reiger” to “Rieger” under Aukema and Rieger, 1995 and 1996.
- Page 46. Change date of Brullé 1835 reference to 1836, following the Aukema and Rieger (1996).
- Page 46. Correct dates of Costa, A. from 1844–1862 to 1843–1862, including first part “1843 (separate, part 1, 7:143–405 . . .,” following Kerzhner (1983, Mitt. Zool. Mus. Berlin 59: 191).
- Page 46. Under Curtis (1824–40) reference correct spelling of “Literatureae” [second to last line] to “Literaturae.”
- Page 48. Under Germar, 1817–1847, reference, switch order of dates from “16–17 (1837); 18–19 (1936)” to 1936 and 1937; and under Gmelin, 1790, reference, correct spelling of “editre” to “edite”; under Goeze, 1778, reference, capitalize “Naturesystems.”
- Page 49. Under Herrich-Schaeffer reference, change leading date 1851 to 1836–1853 and title from “Wazenartigen Insecten” to “Die Wanzenartigen Insecten”; under Horváth, 1885, delete “de” in Revue d’Entomologie; under Horváth, 1901, change “Forschungsreise” to “Forschungsreise”; and under Horváth, 1912, change “Tijdschrift” to “Tijdschrift.”
- Page 50. Under Josifov, 1959, capitalize “art” in Heteropteren-Art; under Josifov, 1965, capitalize “systematik”; under Josifov, 1974, change “In Russian” to “In Bulgarian”; under Lindberg, 1934, change “F” to lower case in “För”; and under Lindberg, 1958, correct journal spelling to Societas “Scientiarum Fennicae.”
- Page 51. Under A. Puton, 1876, add to beginning of title “Notes pour.”
- Page 52. Under Putshkov, 1974, add “[In Ukrainian]”; under Rey, 1888, change “L’Exchange” to “L’Echange”; change authorship of J. C. Schaeffer, 1784 to G. A. Harrer, 1784 and move forward alphabetically; and under Scholtz, 1847, change “de” to “der.”
- Page 53. Under Stål, 1870–1876, correct “Svenskaps” to “Svenska”; and under Strand, 1926, correct the date to “1928,” change “nomenclatoric” to “nomenclatorica,” and change “Arkiv” to “Archiv” and insert “für.”

Page 54. Under Stusak, 1976 a 1976c, spell out "Bulgarian Academy of Sciences."
 Page 55. Delete Wagner 1955 "Ergebnisse, einer . . ."; under Wagner, 1965, correct spelling of "Commentiones" to "Commentationes."

Add the following papers to the bibliography:

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- Rampazzi, F. and M. Dethier. 1997. Gli eterotteri (Insecta: Heteroptera) delle torbiere a sfagni del Cantone Ticino e de Moesano (Val Calanca e Val Mesolcina—GR), Svizzera. *Mitteilungen der Schweizerischen Entomologischen Gesellschaft* 70: 419–439.
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ACKNOWLEDGMENTS

We are grateful to I. M. Kerzhner (Zoological Institute, Russian Academy of Sciences, St. Petersburg) for his careful review of the catalog and for noting the inadvertent omission of *Neides propinquus*; J. Péricart (Montereau, France) for his comments on the serious type-species problem involving the genus *Metacanthus*; J. L. Stehlík (Dept. Entomology, Moravian Museum, Preslova, Czech Republic) for pointing out an important paper on the stilt bugs of Slovakia; and to W. Rabitsch (Dept. of Ecophysiology, Institute of Zoology, Vienna, Austria) for not-

ing numerous omitted country records and for bringing to our attention the description of the recently described *Gampsocoris gatai*. We also thank D. R. Smith and N. J.

Vandenberg, Systematic Entomology Laboratory, U. S. Department of Agriculture, Washington, DC, for reviewing the manuscript and offering other useful suggestions.